CLAIMS

We claim:

1   1.   A method comprising:

2   encoding a first coefficient value in a first frame of a motion sequence;

3   subsequently setting a second coefficient in a second frame of the

4   motion sequence and in the same position as the first coefficient to be within

5   a predetermined closeness with the value of the first coefficient.

1   2.   The method defined in Claim 1 wherein the predetermined

2   closeness is within a quantization bin size.

1   3.   The method defined in Claim 1 wherein the predetermined

2   closeness is within twice a quantization bin size.

1   4.   The method defined in Claim 1 wherein the second coefficient

2   is set to the same value as the first coefficient.

1   5.   The method defined in Claim 1 further comprising

2   determining whether quantization is applied to the first coefficient, wherein

3   setting the second coefficient occurs only if the same quantization was

4   applied to the first coefficient.

1   6.   The method defined in Claim 1 wherein setting the second

2   coefficient to the value near the first coefficient occurs only if the absolute

3   value of a difference between a quantized version of the first coefficient and

4   a result of applying a scalar quantization to the second coefficient is less than

5   a threshold value.

1   7.   The method defined in Claim 6 wherein the threshold

2   comprises a value equal to twice the quantization step size.

1   8.   An article of manufacture comprising at least one recordable

2   media storing executable instructions thereon which, when executed by a

3   processing device, cause the processing device to:

4   encode a first coefficient value in a first frame of a motion sequence;

5   subsequently set a second coefficient in a second frame of the motion

6   sequence and in the same position as the first coefficient to be within a

7   predetermined closeness with the value of the first coefficient.

1   9.   The article of manufacture defined in Claim 8 wherein the

2   predetermined closeness is within a quantization bin size.

1   10.   The article of manufacture defined in Claim 8 wherein the

2   predetermined closeness is within twice a quantization bin size.

1   11.   The article of manufacture defined in Claim 8 wherein the

2   second coefficient is set to the same value as the first coefficient.

1   12.   An apparatus comprising:

2   means for encoding a first coefficient value in a first frame of a motion

3   sequence;

4   means for subsequently setting a second coefficient in a second frame

5   of the motion sequence and in the same position as the first coefficient to be

6   near to the value of the first coefficient.

1   13.   The apparatus defined in Claim 12 wherein the predetermined

2   closeness is within a quantization bin size.

1   14.   The apparatus defined in Claim 12 wherein the predetermined

2   closeness is within twice a quantization bin size.

1   15.   The apparatus defined in Claim 12 wherein the second

2   coefficient is set to the same value as the first coefficient.

1   16.   An encoding apparatus comprising:

2   a wavelet transform;

3   a quantizer coupled to the wavelet transform, the quantizer

4   comprising:

5   a first memory to store a threshold value,

6   a second memory to store quantized versions of coefficients in

7   a previous frame of a motion sequence, and

8   quantization logic to set a first coefficient value in a subsequent

9   frame to a value within a predetermined closeness to that of a second

10   coefficient at the same position in the previous frame.

1   17.   The encoding apparatus defined in Claim 16 wherein the

2   quantization logic determines whether quantization is applied to the first

3   coefficient and sets the second coefficient occurs only if quantization was

4   applied to the first coefficient.

1   18.   The encoding apparatus defined in Claim 16 wherein the

2   quantization logic sets the second coefficient to the value of the first

3   coefficient only if the absolute value of a difference between a quantized

4   version of the first coefficient and a result of applying a scalar quantization

5   to the second coefficient is less than a threshold value.

1   19.   The encoding apparatus defined in Claim 16 wherein the

2   threshold comprises a value equal to twice the quantization step size.

1   20.   The encoding apparatus defined in Claim 16 wherein the

2   predetermined closeness is within a quantization bin size.

1   21.   The encoding apparatus defined in Claim 16 wherein the

2   predetermined closeness is within twice a quantization bin size.

1   22.   The encoding apparatus defined in Claim 16 wherein the

2   second coefficient is set to the same value as the first coefficient.